

Visit the [Isotope Explorer](#) home page!

## 12 reference(s) found :

**Keynumber:** 1997PA24

**Reference:** Bull.Rus.Acad.Sci.Phys. 61, 163 (1997)

**Authors:** I.V.Panov

**Title:** Radiative Neutron Capture and r-Process

**Keyword abstract:** NUCLEAR REACTIONS <sup>116, 118, 120, 122, 124, 119</sup>Sn, <sup>120, 125, 126, 122, 124, 128, 130</sup>Te(n,γ),E=30 keV; calculated capture σ; deduced r-process associated kinetic models predictions features regarding elements concentration. Fermi gas model.

**Keyword abstract:** NUCLEAR STRUCTURE A=110-140; A=140-180; A=230-270; calculated 30 keV neutron capture σ on neutron rich Cd,Pr,U isotopes; deduced r-process associated kinetic models predictions features regarding elements concentration. Fermi gas model.

**Keynumber:** [1996WI20](#)

**Reference:** Phys.Rev. C54, 2732 (1996)

**Authors:** K.Wisshak, F.Voss, F.Kappeler

**Title:** Neutron Capture Resonances in <sup>116</sup>Sn, <sup>118</sup>Sn, and <sup>120</sup>Sn

**Keyword abstract:** NUCLEAR REACTIONS <sup>116, 118, 120</sup>Sn(n,γ),E=3-20 keV; measured σ(n,γ). <sup>117, 119, 121</sup>Sn deduced resonances,parameters,gΓnΓγ/(Γn+Γγ),Maxwellian averaged capture σ.

**Keynumber:** [1996WI14](#)

**Reference:** Phys.Rev. C54, 1451 (1996)

**Authors:** K.Wisshak, F.Voss, Ch.Theis, F.Kappeler, K.Guber, L.Kazakov, N.Kornilov, G.Reffo

**Title:** Stellar Neutron Capture Cross Sections of the Tin Isotopes

**Keyword abstract:** NUCLEAR REACTIONS <sup>114, 115, 116, 117, 118, 120</sup>Sn(n,γ),E=3-225 keV; measured capture σ(E); deduced Maxwellian averaged σ for stellar temperatures kT=10 to 100 keV.

**Keynumber:** 1989TI03

**Reference:** Yad.Fiz. 50, 609 (1989)

**Authors:** V.M.Timokhov, M.V.Bokhovko, A.G.Isakov, L.E.Kazakov, V.N.Kononov, G.N.Manturov, E.D.Poletaev, V.G.Pronyaev

**Title:** Neutron Capture,Total Cross Sections and Average Resonance Parameters for Tin Isotopes

**Keyword abstract:** NUCLEAR REACTIONS <sup>112, 114, 115, 116, 117, 118, 119, 120, 122, 124</sup>Sn(n,γ),E=20-450 keV; measured capture σ(E). <sup>112, 114, 115, 116, 117, 118, 119, 120, 122, 124</sup>Sn(n,X),E=20-1400 keV; measured total σ(E); deduced s-,p-wave potential scattering radii,model parameters. <sup>113, 115, 116, 117, 118, 119, 121, 122, 123, 125</sup>Sn deduced s-,p-wave,γ-strength functions.

**Keynumber:** 1989BE45

**Reference:** Nucl.Instrum.Methods Phys.Res. A284, 77 (1989)

**Authors:** A.G.Beda, S.I.Burov, L.N.Bondarenko, G.V.Danilyan, P.Geltenbort, F.Gonnenwein, V.L.Kuznetsov, A.N.Martemyanov, Yu.A.Mostovoy, K.Schreckenbach

**Title:** Investigation of the P-Odd Asymmetry in the Resonance Scattering of Neutron Capture Gamma-Rays

**Keyword abstract:** NUCLEAR REACTIONS <sup>112</sup>Cd, <sup>118</sup>Sn, <sup>139</sup>La, <sup>141</sup>Pr, <sup>142</sup>Nd, <sup>205</sup>Tl, <sup>208</sup>Pb (polarized n,γ),E=reactor; measured Eγ,γ CP; deduced parity nonconserving asymmetry limits.

**Keynumber:** 1978RA16

**Reference:** Phys.Rev. C18, 1158 (1978)

**Authors:** S.Raman, R.F.Carlton, G.G.Slaughter, M.R.Meder

**Title:** Resonance (n, $\gamma$ ) Measurements and Weak-Coupling Model Calculations of Levels in  $^{119}\text{Sn}$ ,  $^{117}\text{Sn}$ , and  $^{115}\text{Sn}$

**Keyword abstract:** NUCLEAR REACTIONS  $^{118}\text{Sn}(n,\gamma)$ ,E=0.3-5.1 keV;  $^{116}\text{Sn}(n,\gamma)$ ,E=0.09-1.6 keV;  $^{114}\text{Sn}(n,\gamma)$ ,E=0.09-2.4 keV; measured  $E\gamma$ , $I\gamma$ ; deduced Q.  $^{119}\text{Sn}$  deduced resonances,J.  $^{117}$ ,  $^{115}\text{Sn}$  deduced resonances.  $^{119}$ ,  $^{117}$ ,  $^{115}\text{Sn}$  deduced levels,J, $\pi$ ,neutron separation energies.  $^{115}$ ,  $^{117}$ ,  $^{119}$ ,  $^{121}$ ,  $^{123}$ ,  $^{125}\text{Sn}$  systematics. Enriched targets.

**Keyword abstract:** NUCLEAR STRUCTURE weak-coupling model.  $^{119}$ ,  $^{117}$ ,  $^{115}\text{Sn}$  calculated energy level, $\mu$ ,quadrupole moment,B(E2),B(M1). Comparison with experiment.

**Keynumber:** 1976RAZY

**Reference:** Bull.Am.Phys.Soc. 21, No.4, 634, HF8 (1976)

**Authors:** S.Raman, G.G.Slaughter, R.F.Carlton

**Title:** The  $^{118}\text{Sn}(n,\gamma)^{119}\text{Sn}$  Reaction

**Keyword abstract:** NUCLEAR REACTIONS  $^{118}\text{Sn}(n,\gamma)$ ,E <5.14 keV; measured  $\sigma(E,E\gamma)$ .  $^{119}\text{Sn}$  deduced resonances,levels,J, $\pi$ . Systematics.

**Keynumber:** 1973RA17

**Reference:** Nucl.Phys. A206, 343 (1973)

**Authors:** S.Raman, P.H.Stelson, G.G.Slaughter, J.A.Harvey, T.A.Walkiewicz, G.J.Lutz, L.G.Multhauf, K.G.Tirsell

**Title:** Gamma Transitions between Low-Lying Levels in  $^{119}\text{Sn}$

**Keyword abstract:** RADIOACTIVITY  $^{119}\text{In}$  [from  $^{120}\text{Sn}(\gamma,p)$ ,  $^{119}\text{Sn}(n,p)$ ,  $^{122}\text{Sn}(n,\alpha)$  ( $\beta$ )  $^{119}\text{In}$ ]; measured  $T_{1/2}$ , $E\gamma$ , $I\gamma$ .  $^{119}\text{Sn}$  deduced levels.

**Keyword abstract:** NUCLEAR REACTIONS  $^{118}\text{Sn}(n,\gamma)$ ,E=th,46-5000 eV; measured  $E\gamma$ , $I\gamma$ .  $^{119}\text{Sn}$  ( $\alpha,\alpha'\gamma$ ), $E\alpha=10$  MeV; measured  $E\gamma$ , $I\gamma$ .  $^{119}\text{Sn}$  deduced levels. Enriched targets,Ge(Li) detector.

**Keynumber:** 1972RAZA

**Coden:** JOUR BAPSA 17 906,S Raman,10/30/72

**Keyword abstract:** RADIOACTIVITY  $^{119}\text{In}$ ; measured  $E\gamma$ , $I\gamma$ .  $^{119}\text{Sn}$  deduced levels,transitions.

**Keyword abstract:** NUCLEAR REACTIONS  $^{118}\text{Sn}(n,\gamma)$ , measured  $E\gamma$ , $I\gamma$ .  $^{119}\text{Sn}$  deduced levels,transitions.

**Keynumber:** 1972BHZZ

**Coden:** CONF Budapest,Contributions,P60,M Bhat,10/11/72

**Keyword abstract:** NUCLEAR REACTIONS  $^{56}\text{Fe}$ ,  $^{96}\text{Zr}$ ,  $^{98}\text{Mo}$ ,  $^{116}$ ,  $^{118}$ ,  $^{120}$ ,  $^{122}$ ,  $^{124}\text{Sn}$  (n, $\gamma$ ),E=resonance; measured  $I\gamma(\theta)$ .  $^{57}\text{Fe}$ ,  $^{97}\text{Zr}$ ,  $^{99}\text{Mo}$ ,  $^{117}$ ,  $^{119}$ ,  $^{121}$ ,  $^{123}$ ,  $^{125}\text{Sn}$  resonances, levels deduced J.

**Keynumber:** 1968BH01

**Reference:** Phys.Rev. 166, 1111(1968)

**Authors:** M.R.Bhat, R.E.Chrien, O.A.Wasson, M.Beer, M.A.Lone

**Title:** Investigation of  $\gamma$  Rays Following s- and p-Wave Neutron Capture in Tin Isotopes

**Keyword abstract:** NUCLEAR REACTIONS  $^{117}$ ,  $^{118}$ ,  $^{120}$ ,  $^{124}\text{Sn}(n,\gamma)$ ,E=0.02-500 eV; measured

$E\gamma, I\gamma, \sigma(\theta(\gamma))$ .  $^{118}, ^{119}, ^{121}, ^{125}\text{Sn}$  deduced resonances,  $J, \pi$ , level-width.  $^{118}, ^{119}, ^{121}, ^{125}\text{Sn}$  deduced levels,  $J, \pi$ .

-----  
**Keynumber:** 1966HAZY

**Reference:** ORNL-3924, p.37 (1966)

**Authors:** J.A.Harvey, G.G.Slaughter, M.J.Martin

**Title:** High-Resolution Measurements of Gamma Rays from Thermal- and Resonance-Neutron Capture in the Isotopes of Tin

**Keyword abstract:** NUCLEAR REACTIONS  $^{114}, ^{115}, ^{116}, ^{117}, ^{118}, ^{119}, ^{120}, ^{122}, ^{124}\text{Sn}(n, \gamma)$ ,  $E=\text{thermal}$ , resonance; measured  $\sigma(E\gamma), I\gamma$ .  $^{116}, ^{117}, ^{118}, ^{119}, ^{120}, ^{121}, ^{123}, ^{125}\text{Sn}$  deduced levels.  $^{118}, ^{122}\text{Sn}$  deduced resonance.